

United States Patent and Trademark Office

1

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/538,406	06/10/2005	Horst Belau	S3-02P20581	1840
24131	7590 08/15/2006		EXAMINER	
LERNER GREENBERG STEMER LLP			ALLEN, STEPHONE B	
P O BOX 2480 HOLLYWOOD, FL 33022-2480			ART UNIT	PAPER NUMBER
			2878	
			DATE MAILED: 08/15/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/538,406	BELAU, HORST			
Office Action Summary	Examiner	Art Unit			
•					
The MAILING DATE of this communication and	Stephone B. Allen	2878			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from 1. cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
 1) ☐ Responsive to communication(s) filed on 15 M. 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E. 	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 13-22 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 13-22 is/are rejected. 7) ☐ Claim(s) 23-33 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	vn from consideration. r election requirement. r. epted or b) □ objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is objected to be the drawing(s) is obje	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some col None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

Application/Control Number: 10/538,406

Art Unit: 2878

Applicant's arguments with respect to claims 13-22 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 13-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over U/S. Patent No. 6,414,388 to Moriyama.

With respect to claim 13, Moriyama discloses an apparatus comprising a first printed circuit board 4 for highly complex semiconductors having at least one optical image-recording sensor 3, and a second printed circuit board 7 for remaining, less complex components, a metallic base plate 2 having mounted thereon at least one of the first printed circuit board and said second printed circuit board.

With respect to claim 14, Moriyama is silent as to an amount of adhesive being used for attaching the at least one printed circuit board to said metallic base plate, however it is inherent that an adhesive is used.

With respect to claim 15, Moriya is silent as to the elements connected on the printed circuit board, however such would have been obvious according to the components of the imaging device.

With respect to claims 16 and 17, Moriyama fails to disclose the imagegeneration device being configured for installation in a roof area of a motor vehicle for object detection exterior to and/or interior of the vehicle. However, it would have been obvious for one of ordinary skill in the art to use the device in any given environment since such is considered intended use.

With respect to claims 18 and 19, Moriyama fails to disclose that the first or second printed circuit board has thermal pads, vias, or Peltier elements. However, it would have been obvious for one of ordinary skill in the art to include thermal pads as means of insulating the board from heat damage.

With respect to claim 20, Moriyama discloses that the image-generation device comprises optics means.

With respect to claim 21, Moriyama discloses wherein the optics means are preassembled together with a housing or retention means.

With respect to claim 22, Moriyama fails to disclose wherein the PCB is board assembled with at least one of chip-on-board and flip-chip technology.

Allowable Subject Matter

Claims 23-33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephone B. Allen whose telephone number is 571-272-2434. The examiner can normally be reached on M-F 08:30-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on 571-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

stephone B Allen Primary Examiner Art Unit 2878

sba